

Patent claims

1. Method for control of a transmission of data in a radio communication system with a hierarchical network architecture, characterized in that
 - 5 a device (NodeB 1, NodeB 2) of a lower hierarchy of the hierarchical network architecture transfers cell load reporting (CLR) to a device (CRNC) of a higher hierarchy of the hierarchical network architecture, and the device (CRNC) of the higher hierarchy undertakes a check (RA) of transmission capacities of the device
 - 10 (NodeB 1, NodeB 2) of the lower hierarchy on the basis of the cell load reporting (CLR).
2. Method according to Claim 1, characterized in that, information about the load states for the area of the radio
- 15 communication system served by the device (NodeB 1, NodeB 2) of the lower hierarchy is transmitted as cell load reporting (CLR).
3. Method according to Claim 2, characterized in that, load values averaged over time for defined operating parameters
- 20 and/or signaling types of the radio communication system for radio data connections between of a device (NodeB 1, NodeB 2) of the lowest hierarchy and user equipment (UE1, UE2, UE3) are transmitted as information (CLR) about the load states.
4. Method according to one of the Claims 1 to 3,
- 25 characterized in that, on the basis of the cell load reporting (CLR) a check is made on an allocation of user equipment (UE1, UE2, UE3) to specific devices (NodeB 1, NodeB 2) of the lowest hierarchy.

5. Method according to Claim 4,
characterized in that,
a cellular radio communication system is provided as the radio
communication system and on the basis of the cell load reporting
5 (CLR) a check is made on a handover option for at least one user
equipment (UE1, UE2, UE3) from a first cell (A, B, C, D) of the
radio network to a second cell (A, B, C, D) of the radio
communication system.
6. Method according to one of the Claims 1 to 5,
10 characterized in that,
the cell load reporting (CLR) is transmitted depending on particular
time events.
7. Method according to Claim 6,
characterized in that,
15 the cell load reporting (CLR) is transmitted periodically.
8. Method according to one of the Claims 1 to 5,
characterized in that,
the cell load reporting (CLR) is transmitted depending on specific
operational events of the radio communication system.
- 20 9. Method according to Claim 8,
characterized in that,
the cell load reporting (CLR) is undertaken as a function of defined
load states for the area of the radio communication system served by
the device (NodeB 1, NodeB 2) of the lower hierarchy.
- 25 10. Method according to Claim 9,
characterized in that,
the cell load reporting (CLR) is undertaken as a function of defined
threshold values for the load states.

11. Method according to one of the Claims 1 to 10, characterized in that

a transmission of data packets is controlled in a packet data transmission system.

5 12. Radio communication system with a hierarchical network architecture with devices (CRNC, SRNC1, SRNC2) for control of a transmission of data, where the hierarchical network architecture features devices (NodeB 1, NodeB 2) of a lower hierarchy and at least one device (CRNC) of a higher hierarchy,

10 characterized in that

at least one device (NodeB 1, NodeB 2) of a lower hierarchy is embodied for transmission of a cell load reporting (CLR) to a device of a higher hierarchy and the device (CRNC) of the higher hierarchy is embodied for checking the transmission capacities of the device
15 (NodeB 1, NodeB 2) of the lower hierarchy on the basis of cell load reporting (CLR).

13. Radio communication system according to Claim 12, embodied as a packet data transmission system.